

Title (en)  
SUBSTITUTED HETEROCYCLICS WITH THERAPEUTIC ACTIVITY IN HIV

Title (de)  
SUBSTITUIERTE HETEROCYCLLEN MIT THERAPEUTISCHER AKTIVITÄT BEI HIV

Title (fr)  
COMPOSÉS HÉTÉROCYCLIQUES SUBSTITUÉS PRÉSENTANT UNE ACTIVITÉ THÉRAPEUTIQUE CONTRE LE VIH

Publication  
**EP 4061360 A4 20230705 (EN)**

Application  
**EP 20890017 A 20201119**

Priority  
• US 201962937665 P 20191119  
• US 2020061239 W 20201119

Abstract (en)  
[origin: WO2021102114A1] Substituted heterocyclic substituted pyrrole carboxamide compounds such as those represented by Formula I or Formula II are provided herein. Such compounds, or pharmaceutically acceptable salts thereof, can be used in the treatment of HIV infection and related conditions.

IPC 8 full level  
**A61K 31/407** (2006.01); **A61K 31/437** (2006.01); **A61K 31/444** (2006.01); **A61P 31/18** (2006.01)

CPC (source: EP US)  
**A61K 31/4025** (2013.01 - US); **A61K 31/426** (2013.01 - US); **A61P 31/18** (2018.01 - EP); **C07D 417/14** (2013.01 - EP)

Citation (search report)  
• [A] WO 2016044808 A1 20160324 - NEW YORK BLOOD CT INC [US], et al  
• [XPI] CURRELI FRANCESCA ET AL: "Preclinical Optimization of gp120 Entry Antagonists as anti-HIV-1 Agents with Improved Cytotoxicity and ADME Properties through Rational Design, Synthesis, and Antiviral Evaluation", JOURNAL OF MEDICINAL CHEMISTRY, vol. 63, no. 4, 7 February 2020 (2020-02-07), US, pages 1724 - 1749, XP093049889, ISSN: 0022-2623, DOI: 10.1021/acs.jmedchem.9b02149  
• [A] FRANCESCA CURRELI ET AL: "Synthesis, Antiviral Activity, and Structure-Activity Relationship of 1,3-Benzodioxolyl Pyrrole-Based Entry Inhibitors Targeting the Phe43 Cavity in HIV-1 gp120", CHEMMEDCHEM COMMUNICATIONS, WILEY-VCH, DE, vol. 13, no. 21, 19 October 2018 (2018-10-19), pages 2332 - 2348, XP072415529, ISSN: 1860-7179, DOI: 10.1002/CMDC.201800534  
• [A] BELOV DMITRY ET AL: "Synthesis of 5-Arylpyrrole-2-carboxylic Acids as Key Intermediates for NBD Series HIV-1 Entry Inhibitors", SYNTHESIS, vol. 49, no. 16, 18 April 2017 (2017-04-18), STUTTGART, DE., pages 3692 - 3699, XP055963698, ISSN: 0039-7881, DOI: 10.1055/s-0036-1588780  
• [A] CURRELI FRANCESCA ET AL: "Design, synthesis and evaluation of small molecule CD4-mimics as entry inhibitors possessing broad spectrum anti-HIV-1 activity", BIOORGANIC & MEDICINAL CHEMISTRY, ELSEVIER, AMSTERDAM, NL, vol. 24, no. 22, 24 September 2016 (2016-09-24), pages 5988 - 6003, XP029775065, ISSN: 0968-0896, DOI: 10.1016/J.BMC.2016.09.057  
• See also references of WO 2021102114A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
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EP 4061360 A4 20230705; JP 2023503062 A 20230126; US 2023058961 A1 20230223

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**US 2020061239 W 20201119**; AU 2020388636 A 20201119; CN 202080080136 A 20201119; EP 20890017 A 20201119;  
JP 2022529046 A 20201119; US 202017777923 A 20201119